STONEPITCHED RETAINING WALL VERTICAL FACE
UNSTABLE INSITU MATERIAL RETAINED

STONEPITCHED RETAINING WALL
4 IN 1 FACE SLOPE
UNSTABLE INSITU MATERIAL RETAINED

NOTES:
1. THE WALL DIMENSIONS SHOWN ASSUME A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa IS AVAILABLE ON SITE. THE DESIGN IS NOT FOR VEHICLE LOADINGS HENCE A VEHICLE LOAD ON THE UPHILL LEVEL SHALL BE NO CLOSER THAN H FROM THE REAR CAPPING EDGE.
2. MORTAR TO BE 1 PART CEMENT TO 3 PARTS SAND (BY VOLUME). FACE JOINTS TO BE 25mm NOMINAL WIDTH.
3. ROCKS TO BE SELECTED SPALLS SET IN CEMENT MORTAR BEDS IN HORIZONTAL LAYERS. UNLESS SPECIFIED OTHERWISE OPEN FACE STONEPITCHING TO BE USED WHERE THE CONCRETE IS RECESSIONED 50 BEHIND THE STONE FACADE. IF CLOSED FACE STONEPITCHING IS SPECIFIED, CONCRETE TO BE FLUSH WITH THE STONE FACADE. SELECT SPALLS TO AVOID SHARP EDGES.
4. A GEOTECHNICAL ASSESSMENT BY A SUITABLY QUALIFIED ENGINEER IS REQUIRED FOR ALL WALLS FOUNDED IN POOR MATERIALS (e.g. BEARING CAPACITY <100kPa).
5. INSTALL WEEPHOLES IN ADDITION TO THE LONGITUDINAL DRAIN FOR MAINTENANCE AND OVERFLOW PURPOSES. WEEPHOLES TO BE 100 DIA UPVC AT 1000 MAX. CENTRES, POSITIONED AT APPROXIMATELY 100 CONSTANT HEIGHT ABOVE ULTIMATE GROUND MATERIALS (e.g. BEARING CAPACITY >100kPa).
6. LONGITUDINAL DRAIN SHALL BE 300x50 MEGAFLOW OR 100 DIA CORRUGATED PERFORATED POLYETHYLENE PIPE, ENCASED WITH BCC TYPE 2 GEOFABRIC (BIDIM A29 OR EQUIVALENT). THE INVERT OF THE LONGITUDINAL DRAIN SHALL BE 100 BELOW THE INVERT OF THE WEEPHOLE INLET. PREFERABLY THE LONGITUDINAL DRAIN SHALL OUTLET TO THE KERB AND CHANNEL, STORMWATER PIPE OR GULLY AT A MINIMUM SLOPE OF 1 IN 250 AND AT 25mm INTERVALS. WHERE SUCH AN OUTLET IS NOT ACHIEVABLE, THE INVERTS OF THE LONGITUDINAL DRAIN AND THE WEEPHOLE INLET SHALL BE ALIGNED TO ALLOW DIRECT DISCHARGE VIA THE WEEPHOLE.
7. ALL CONNECTIONS, INCLUDING THE JOINING OF LENGTHS OF MEGAFLOW OR CORRUGATED PERFORATED POLYETHYLENE PIPE, SHALL BE MADE USING STANDARD MANUFACTURERS FITTINGS.
8. FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL TO BE BCC TYPE 2 GEOFABRIC (BIDIM A29 OR EQUIVALENT) ADHERED TO BOTH SIDES. ALTERNATIVELY, A 300 THICK, FREE DRAINING FILTER SAND/GRAVEL LAYER SEPARATED FROM INSITU MATERIAL BY A TYPE 2 GEOFABRIC LAYER.
9. BACKFILL SHALL BE FREE DRAINING, NON PLASTIC PREDOMINANTLY GRANULAR MATERIAL WITH MINIMUM FRICTION ANGLES OF 38° AND 27°. WHERE FOUNDING MATERIALS ARE SAND OR OTHER MATERIALS RESPECTIVELY DO NOT PLACE BACKFILL BEHIND THE WALL UNTIL AT LEAST 10 DAYS AFTER WALL CONSTRUCTION.
10. ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD CORRIDOR WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY.
11. DIMENSIONS IN MILLI METRES (U.N.O.).